Amdt. dated August 2, 2006

Reply to Office Action of May 2, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-84 (Canceled)

Claim 85 (Previously presented): The electronic interconnect element of claim 102, wherein the

first leaf portion comprises a structural material deposited on a conductive seed material.

Claims 86-101 (Canceled)

Claim 102 (Currently amended): An electronic interconnect element comprising:

a first leaf portion;

a contact tip located on a first side of the first leaf portion and disposed to <u>electrically</u>

engage a contact feature of an electronic device;

at least one first support coupled to an opposite side of the first leaf portion offset from

the contact tip;

a second leaf portion having a first side coupled to the at least one first support, wherein

the first support joins the first leaf portion to the second leaf portion such that the first side of the

first leaf portion, the opposite side of the first leaf portion, the first side of the second leaf

portion, and an opposite side of the second leaf portion are substantially parallel; and

at least one second support coupled to the opposite side of the second leaf portion offset

from the at least one first support point.

Claim 103 (Withdrawn): The electronic interconnect element of claim 102, wherein the contact

tip and the second support are located on a common axis that is substantially perpendicular to the

first side of the first leaf portion, the opposite side of the first leaf portion, and the first side of the

second leaf portion.

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Claim 104 (Previously presented): The electronic interconnect element of claim 102 further

comprising a third support spaced apart from the first support and coupled to the opposite side of

the first leaf portion offset from the contact tip, and a fourth support spaced apart from the

second support and coupled to the opposite side of the second leaf portion offset from the first

contact.

Claim 105 (Previously presented): The electronic interconnect element of claim 102 further

comprising a third leaf portion having a first side coupled to the second support, and a third

support coupled to an opposite side of the third leaf portion offset from the second support.

Claim 106 (Previously presented): The electronic interconnect element of claim 102 wherein the

contact tip, the first and second leaf portions and the first and second support are each

structurally distinct and separate elements that are joined one to another.

Claim 107 (Currently amended): An electronic interconnect element comprising:

a plurality of leaf portions;

a contact tip located on a first side of one of the plurality of leaf portions and disposed to

electrically engage a contact feature of an electronic device;

at least one first support coupled to an opposite side of the one leaf portion offset from

the contact tip;

another of the plurality of leaf portions having a first side coupled to the at least one first

support, wherein the first support joins the one leaf portion to the another leaf portion such that

the first side of the one leaf portion, the opposite side of the one leaf portion, the first side of the

another leaf portion, and an opposite side of the another leaf portion are substantially parallel;

and

at least one second support coupled to the opposite side of the other leaf portion offset

from the at least one first support.

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Claim 108 (Currently amended): An electronic interconnect element comprising:

a plurality of leaf structures are disposed in a stack and joined one to another by at least

one support structure;

a post structure attached to a first outer one of said leaf structures and configured to

attach said electronic interconnect element to a first electronic component; and

a contact tip structure attached to a second outer one of said leaf structures and

configured to <u>electrically</u> contact a second electronic component,

wherein each of said leaf structures is configured to flex in response to a force on said

contact tip structure from contact with said second electronic component.

Claim 109 (Previously presented): The electronic interconnect element of claim 108, wherein

said leaf structures are disposed substantially parallel in said stack.

Claim 110 (Previously presented): The electronic interconnect element of claim 108, wherein

each of said plurality of leaf structures is movable in response to a force applied to said contact

tip structure and said interconnect element acts as a spring when said force is applied to said

contact tip structure.

Claim 111 (Previously presented): The electronic interconnect element of claim 110, wherein a

spring constant of said interconnect element comprises a sum of spring constants of each of said

leaf structures.

Claim 112 (Previously presented): The electronic interconnect element of claim 111, wherein a

maximum deflection of said interconnect element comprises a sum of maximum deflections of

each of said leaf structures.

Claim 113 (Previously presented): The electronic interconnect element of claim 110, wherein a

maximum deflection of said interconnect element comprises a sum of maximum deflections of

each of said leaf structures.

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Claim 114 (Previously presented): The electronic interconnect element of claim 108, wherein

upon application of a force to said contact tip structure, each one of said leaf structures deforms

towards another of said leaf structures.

Claim 115 (Previously presented): The electronic interconnect element of claim 108, wherein

upon application of a force to said contact tip structure, the leaf structures in at least one pair of

adjacent leaf structures deform towards each other.

Claim 116 (Previously presented): The electronic interconnect element of claim 108, wherein

upon application of a force to said contact tip structure, the leaf structures in at least one pair of

adjacent leaf structures deform in opposite directions.

Claim 117 (Previously presented): The electronic interconnect element of claim 108, wherein

each of said leaf structures are cylindrically shaped and stacked to form a cylindrically shaped

stack.

Claim 118 (Previously presented): The electronic interconnect element of claim 108, wherein

each of said leaf structures are "H" shaped and stacked to form an "H" shaped stack.

Claim 119 (Previously presented): The electronic interconnect element of claim 108, wherein

each of said leaf structures are rectangular shaped and stacked to form a rectangular shaped

stack.

Claim 120 (Previously presented): The electronic interconnect element of claim 108, wherein at

least one of said leaf structures comprises an opening.

Claim 121 (Previously presented): The electronic interconnect element of claim 108, wherein all

of said leaf structures except said first outer leaf structure and said second outer leaf structure are

disposed between said first outer leaf structure and said second outer leaf structure.

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Claim 122 (Previously presented): The electronic interconnect element of claim 121, wherein

each of said leaf structures comprises a plate with a planar surface, and each of said contact tip

structure, said at least one support structure, and said post structure are attached to at least one of

said planar surfaces.

Claim 123 (Previously presented): The electronic interconnect element of claim 122, wherein

said planar surfaces of said leaf structures are substantially parallel in said stack.

Claim 124 (Previously presented): The electronic interconnect element of claim 108, wherein

each of said leaf structures, each of said at least one support structures, said post structure, and

said contact tip structure are distinct and separate structures that are joined one to another.

Claim 125 (Previously presented): The electronic interconnect element of claim 102, wherein

each of the first leaf portion and the second leaf portion is configured to flex in response to a

force on the contact tip from contact with the electronic device.

Claim 126 (Previously presented): The electronic interconnect element of claim 125, wherein

each of the first leaf portion and the second leaf portion is resilient and configured to generate a

counter force in response to the force on the contact tip.

Claim 127 (Previously presented): The electronic interconnect element of claim 107, wherein

each of the plurality of leaf portions is configured to flex in response to a force on the contact tip

from contact with the electronic device.

Claim 128 (Previously presented): The electronic interconnect element of claim 127, wherein

each of the plurality of leaf portions is resilient and configured to generate a counter force in

response to the force on the contact tip.

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Claim 129 (Currently amended): An electronic interconnect element comprising:

a beam structure comprising a closed first end and a closed second end and a hollow

space between said closed first end and said closed second end;

a contact tip structure joined directly to said beam structure; and

an attachment structure configured to attach said interconnect element to an electronic

component.

Claim 130 (Previously presented): The electronic interconnect element of claim 129, wherein

said beam structure comprises a pair of leaf portions joined one to another at ends of said leaf

portions.

Claim 131 (Previously presented): The electronic interconnect element of claim 130, wherein

said pair of leaf portions are joined one to another at said ends of said leaf portions by support

structures.

Claim 132 (Previously presented): The electronic interconnect element of claim 129 further

comprising a beam to which said beam structure is joined by a support structure.

Claim 133 (Previously presented): The electronic interconnect element of claim 132 further

comprising a plurality of beams, wherein said beam structure is joined to at least one of said

beams by at least one support structure.

Claim 134 (Previously presented): The electronic interconnect element of claim 129 further

comprising another beam structure comprising closed ends and a hollow space between said

closed ends, wherein said beam structure and said another beam structure are joined one to

another by a support structure.

Claim 135 (Withdrawn): The electronic interconnect element of claim 129, wherein said beam

structure is joined to said attachment structure.

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